

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A coaxial structure microwave filter comprising a tube presenting a constant inner diameter and a fully metallized constant outer surface ~~with, in the axial direction, a profile according to a periodic or constant function~~ and an inner bar with a fully metallized outer profile following a ~~constant or periodic function curve~~, ~~the tube and the bar being realized in foam of a metallizable synthetic material, the largest diameter of with electrical characteristics approaching those of air, the inner bar being noticeably having a largest diameter nearly equal to the inner diameter of the tube.~~
2. (Currently Amended) The filter according to claim 1, wherein the periodic ~~function curve~~ is a crenelation ~~function curve~~, the crenelations having dimensions identical from one crenelation to another.
3. (Cancelled)
4. (Cancelled)
5. (Currently Amended) The filter according to claim 1, wherein the periodic ~~function curve~~ is a crenelation function, the crenelations having dimensions different from one crenelation to another.
6. (New) A coaxial structure microwave filter comprising a tube presenting a constant inner diameter and a fully metallized outer surface with, in an axial direction, a profile following a periodic curve and an inner bar with a constant fully metallized outer profile, the tube and the bar being realized in foam of a metallizable synthetic material with electrical characteristics approaching those of air, the inner bar having a diameter nearly equal to the inner diameter of the tube.

7. (New) The filter according to claim 6, wherein the periodic curve is a crenelation curve, the crenelations having dimensions identical from one crenelation to another.

8. (New) The filter according to claim 6, wherein the period curve is a crenelation curve, the crenelations having dimensions different from one crenelation to another.